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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/944,506		08/30/2001	Pai-Hung Pan	2919.5US (96-499.2)	2919.5US (96-499.2) 4348	
24247	7590	12/28/2005		EXAMINER		
TRASK E	BRITT		FOURSON III, GEORGE R			
P.O. BOX 2550 SALT LAKE CITY, UT 84110				ART UNIT PAPER NUM		
	,			2823		
				DATE MAILED: 12/28/200	DATE MAILED: 12/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
Office Action Commons		09/944,506	PAN, PAI-HUNG	
	Office Action Summary	Examiner	Art Unit	
		George Fourson	2823	
Period fo	The MAILING DATE of this communication app r Reply	pears on the cover sheet with the c	orrespondence address	
A SHO WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA asions of time may be available under the provisions of 37 CFR 1.1. SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period v re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communicati D (35 U.S.C. § 133).	
Status				
• —	Responsive to communication(s) filed on <u>07 D</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.	•	is
Dispositi	on of Claims			
5)⊠ 6)⊠ 7)□ 8)□ Applicati 9)□ 10)□	Claim(s) 1-14 and 18-24 is/are pending in the 4a) Of the above claim(s) is/are withdraw Claim(s) 7 and 9-12 is/are allowed.  Claim(s) 1-4,6,8,13,18,19,21,23 and 24 is/are Claim(s) 5,14,20 and 22 is/are objected to.  Claim(s) are subject to restriction and/or on Papers  The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The Oath Oath Oath Oath Oath Oath Oath Oath	wn from consideration.  rejected.  r election requirement.  er.  epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is objected to by the drawing(s) is objected.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121	
Priority u	ınder 35 U.S.C. § 119			
12)[ a)[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
2) Notice 3) Information	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		

Application/Control Number: 09/944,506

Art Unit: 2823

Applicant argues that 37 C.F.R. § 41.39(a)(2) precludes reopening of prosecution. However, applicant has misinterpreted the rule. The rule merely provides for a course of action the examiner "may" take. See MPEP 706.07(e). Therefor, the reply filed 12/7/05 is considered to be a response to the office action mailed 9/6/05 instead of a reply brief.

Claim 22 is objected to because of the following informalities: In claim 22, it appears that "buffer film layer" should be replaced with - - trench isolation structure - - . Appropriate correction is required.

A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 8 is rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 5-12 of prior U.S. Patent No. 6322634. This is a double patenting rejection.

Art Unit: 2823

See especially claim 12.

Applicant's arguments have been addressed in the statement of the rejection in the office action mailed 12/7/05.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-4,6,13,18,19,21,23 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by either one of Morita or Mandelman et al.

Morita discloses in figure 72 trench isolation structure contacting the surface of the active surface area adjacent the trench formed by element 37, including a flat surface, and a portion of element 11 contacting silicon nitride buffer film layer 30 (figure 72).

Mandelman et al discloses in the process step between the intermediate products of figures 4a and 4b trench isolation structure contacting the surface of the active surface area adjacent the trench formed by element 22c, including a flat surface, and a portion of element 11 contacting silicon nitride buffer film layer 12 (figure 72).

Applicant argues that in the structure in fig.72 of Morita the entire surface of the isolation structure is not flat. However, a surface is flat as recited. Further, the claims do not require the surface to be at the

Application/Control Number: 09/944,506

Art Unit: 2823

top of the structure. The structure contains several flat surfaces including the bottom and sides of the structure.

Applicant's argument regarding the isolation structure contacting only a certain area of the substrate are addressed in the statement of the rejection in the office action mailed 12/7/05 and repeated hereinafter: "Applicant appears to argue that the references label the isolation structures differently than applicant would label the structures and therefor the isolation structures of Mandelman et al and Morita do not contact the substrate as recited. However, the isolation structures of Mandelman and Morita et al can be labeled as argued above notwithstanding the labels applied by applicant or the disclosures of the references themselves because the structures identified as isolation structures above provide the function of isolation". To further clarify, the portion of layer 11 not covered by element 3(37) is not part of the isolation structure.

Applicant's allegation that the examiner confuses layer 11 with a part of the STI structure is incorrect. There is no discernable boundary between the portion of the isolation structure comprised of the ledge portion of layers 3(37)/11 and the rest of the isolation structure as is required by the claims, notwithstanding applicant's mischaracterization of the claim language.

Applicant argues that the isolation structure of fig.72 is not exposed through a buffer film layer. In response applicant is directed to element 30.

Applicant's arguments regarding the teachings of Mandelman are analogous to those regarding the teachings of Morita and are adequately addressed in the statement of the rejection in the office action mailed 12/7/05 and in the response to the arguments regarding the teachings of Morita above.

Claims 5,14,20 and 22 (see objection above) are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 7-12 are allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Fourson whose telephone number is (571) 272-1860. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith, can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Art Unit: 2823

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

George Fourson Primary Examiner Art Unit 2823

GFourson December 16, 2005